## WINTER CONFERENCE ON BRAIN RESEARCH PROPOSAL FOR PROGRAM

This panel will bridge the complexit subunits and binding sites to the me purification and molecular character distribution of nicotine receptors administration of nicotine. Furt neuroendocrine responses to chronic describe clinical studies of nicotine Specifically, he will discuss dose-res measures. Dr. Van Loon will discus the potential interactions between nicof nicotine.  Although this topic has far reaching making it perhaps more suitable for a WCBR eligible?  ANIZER & eligible?  TUTION Glen R. Van Loon Yes  VAMC, Lexington and University of Kentucky  TICIPANTS & ITUTIONS Leo Abood Yes  Center for Brain Research University of Rochester  Kenneth Kellar Yes  Georgetown University	EMENTARY INFORMATION ity of nicotine's action in brain from the multiplicity of receptor nechanisms of tolerance development. Dr. Abood will discuss
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Glen R. Van Loon  VAMC, Lexington and  University of Kentucky  ICIPANTS & ITUTIONS Leo Abood  Center for Brain Research University of Rochester  Kenneth Kellar  Georgetown University	
University of Kentucky  ICIPANTS & ITUTIONS Leo Abood Yes Center for Brain Research University of Rochester  Kenneth Kellar Georgetown University	
Center for Brain Research University of Rochester  Kenneth Kellar Georgetown University	BRAIN NICOTINIC RECEPTOR MEDIATION OF TOLERANCE A
TICIPANTS & FITUTIONS Leo Abood Yes Center for Brain Research University of Rochester Kenneth Kellar Yes Georgetown University	DEPENDENCE
TTUTIONS Leo Abood Yes Center for Brain Research University of Rochester Kenneth Kellar Georgetown University	Organizer: Glen R. Van Loon Participants: L. Abood, K. Kellar, J. Henningfield
Center for Brain Research University of Rochester  Kenneth Kellar Georgetown University	
Center for Brain Research University of Rochester  Kenneth Kellar Georgetown University	Classic concepts of the mode of action of nicotine have thallenged in recent years. Several observations make difficult to record
Kenneth Kellar Yes Congetown University to	the hypothesis that nicotine acts only as a cholinergic agonist. No sin
Kenneth Kellar Yes Consequence	relationship exists between the receptor affinity of a drug and its abilit antagonize the psychotropic action of nicotine. The nicotinic rece
Georgetown University t	contains multiple ligand binding sites and the different receptor subu
	may mediate discrete nicotinic functions, including stimulant, reinforce
	tolerance and dependence effects. The neuropharmacologic mechani underlying these functions may be inherent in the complex nicotinic rece
Jack Henningfield No d	and the multiplicity of binding sites or may relate to binding at diffe
<u> </u>	discrete neuroanatomical locations or may involve mediation by oneurotransmitter systems such as opioid peptide neuronal systems w
Track hist for Drug Abuse	display the characteristics of tolerance and dependence.
Addiction Research Center	